

# Performance Program Update



MAG Transportation Review Committee  
9-29-2016



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# Performance Program Update

## ● FAST

- ◉ National Goals
- ◉ Rulemaking
- ◉ Measures and Targets
- ◉ Transparency and Accountability
- ◉ Requires State/MPO and Transit agency coordination
- ◉ Reporting Cycles

# USDOT/FHWA Rulemaking

Performance Area	Final Rule
Safety Performance Measures	Published March 15, 2016
Highway Safety Improvement Program	Published March 15, 2016
Statewide and Metro Planning; Non-Metro Planning	Published May 27, 2016
Pavement and Bridge Performance Measures	Anticipated October 2016
Highway Asset Management Plan	Anticipated October 2016
Performance of the NHS, Freight, and CMAQ Measures	TBD

# USDOT/FHWA Rulemaking



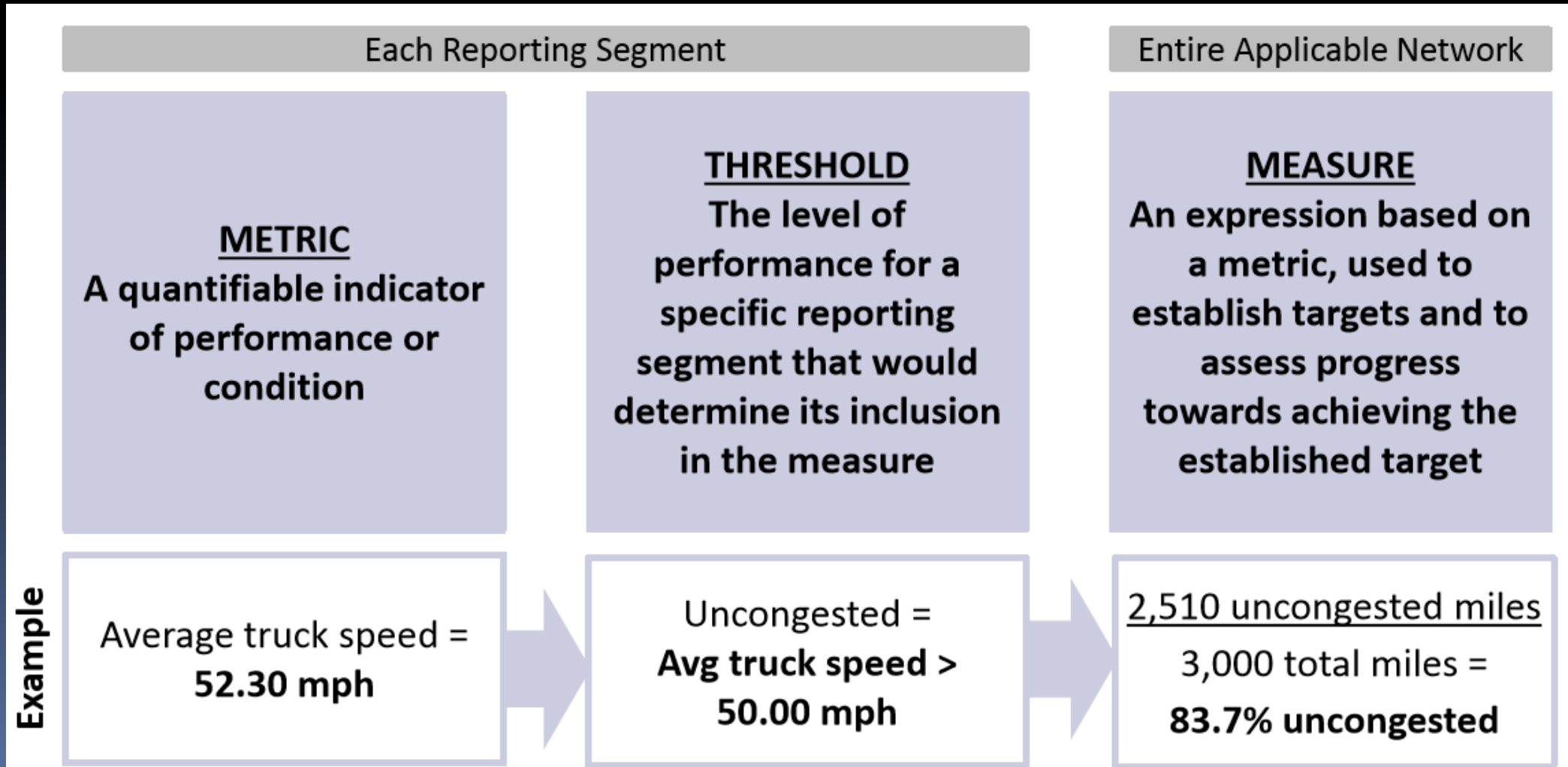
# MAP-21/FAST

Rulemaking



# Performance Program Update

## Metrics, Thresholds and Measures



# Performance Program Update

## Measures and Targets

Entire Applicable Network	
<p><b><u>MEASURE</u></b></p> <p>An expression based on a metric, used to establish targets and to assess progress towards achieving the established target</p>	<p><b><u>TARGET</u></b></p> <p>A quantifiable level of performance or condition, as a value for a measure, to be achieved within a time period required by FHWA</p>
<p><b>83.7% total Interstate miles uncongested</b></p>	<p>Target: 80.0% Uncongested Actual: 83.7% Uncongested <b>✓ Target Achieved</b></p>

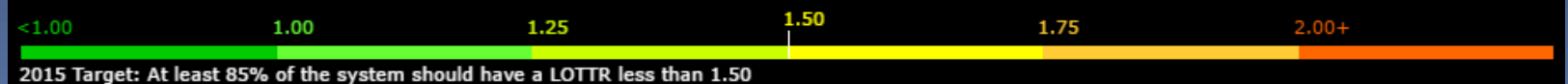
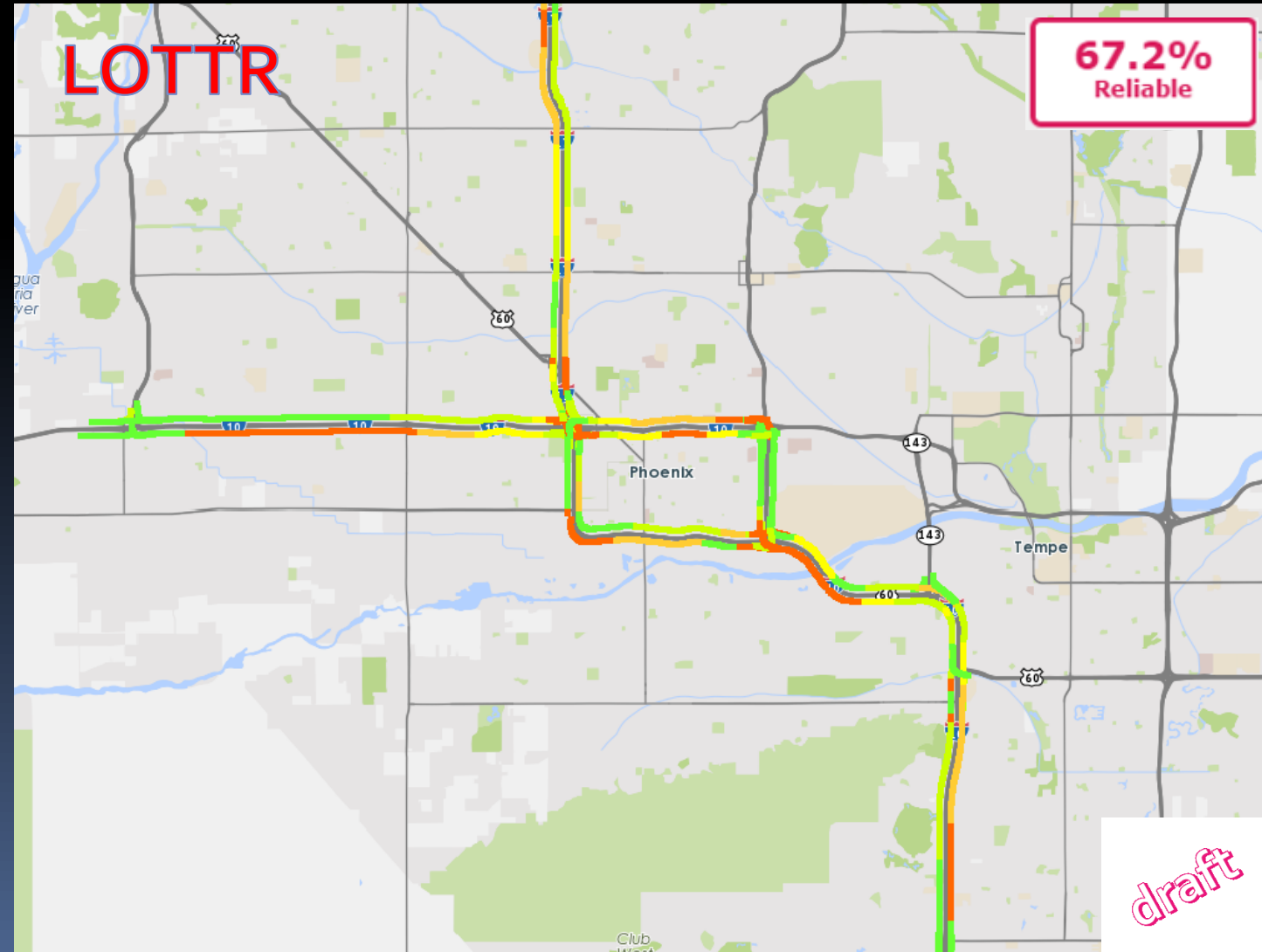


# PMTAG



## Phoenix/Mesa Interstate System Travel Time Reliability - LOTTR

2014 Target: At least 85% of the system should have a LOTTR less than 1.50



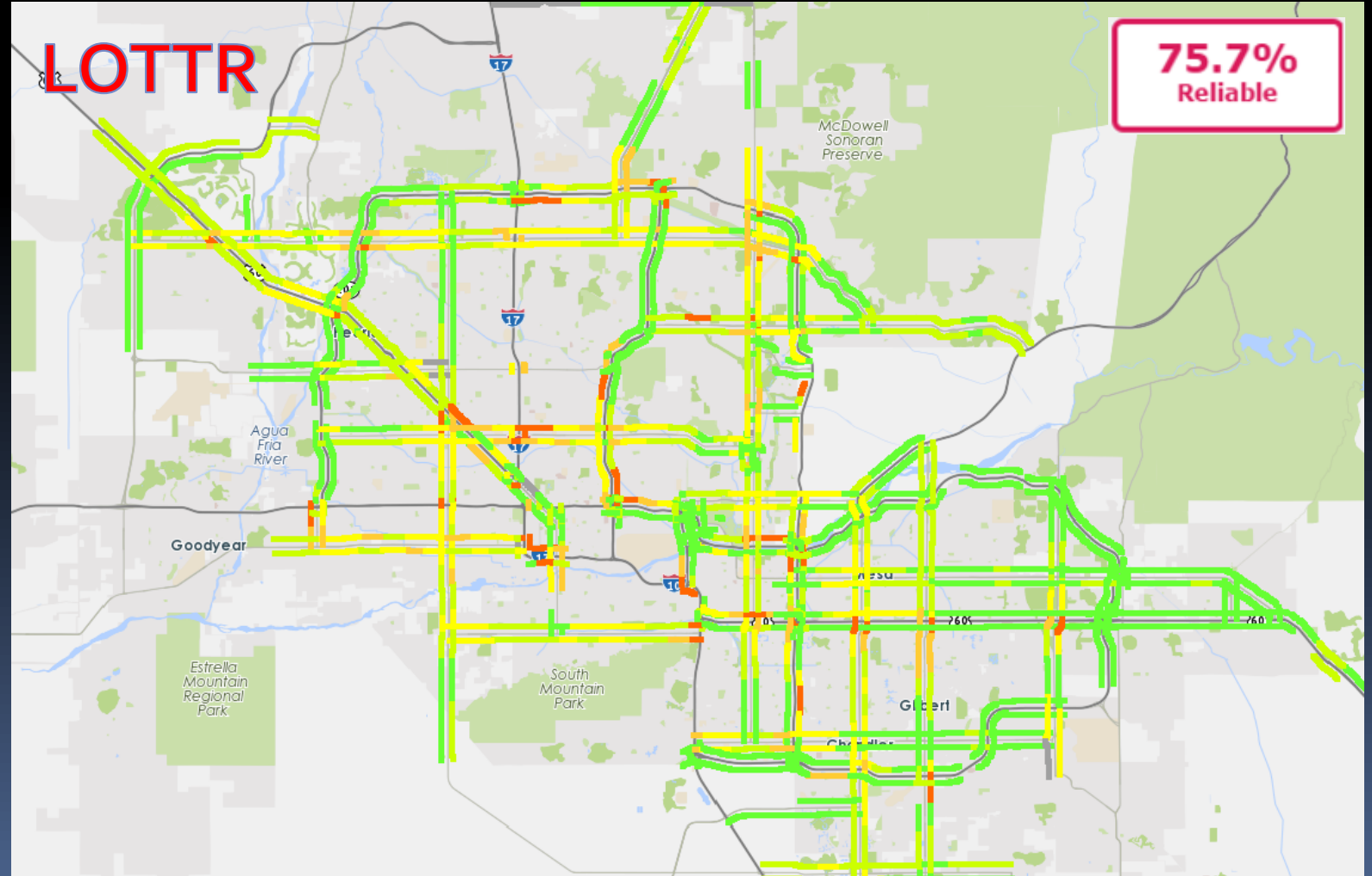


# PMTAG



## Phoenix/Mesa Non-Interstate System Travel Time Reliability - LOTTR

2014 Target: At least 85% of the system should have a LOTTR less than 1.50



<1.00

1.00

1.25

1.50

1.75

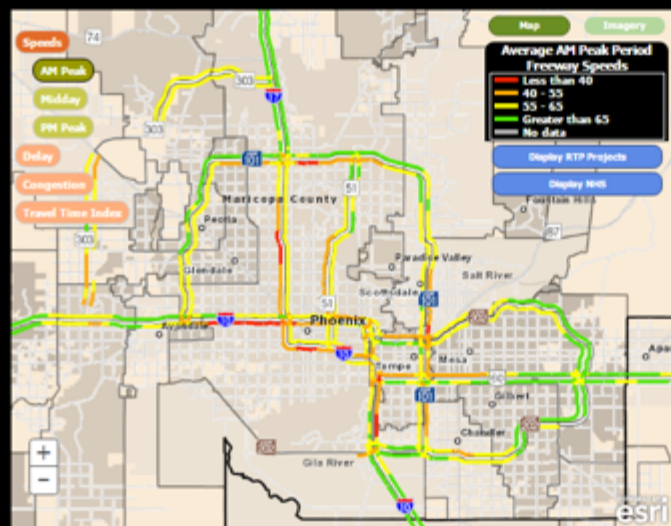
2.00+

2015 Target: At least 85% of the system should have a LOTTR less than 1.50



# 2016 RTP Performance Audit

- **State Mandated**  
Arizona Revised Statutes (A.R.S.) §28-6313
- **Second Iteration (2010, 2016)**  
Review past expenditures of the RTP during the time period of fiscal years 2011 through 2015 and examine the performance of the system in relieving congestion and improving mobility
- **On going –**  
Data intensive. Estimated to be finalized before the end of 2016



Average Trip Length per Mode of Travel (2013-2014)

	Average Trip Length (Miles)		Average Trip Length (Minutes)		Percent of Travel	
	2013	2014	2013	2014	2013	2014
Drive Alone	14.28	14.43	23.83	23.82	36.8%	37.5%
Boat/Rail	5.83	5.83	19.26	18.39	1.2%	1.2%
Bus	13.24	13.75	38.29	39.02	3.0%	2.9%
Carpool	15.35	15.44	22.75	22.7	15.7%	13.0%
Light Rail	14.04	13.76	34.49	33.65	0.5%	0.5%
Tolocommune	NA	NA	NA	NA	2.1%	2.3%
Vanpool	33.39	34.58	43.41	44.66	0.5%	0.5%
Walk/Bike	3.41	3.28	15.57	15.09	2.2%	2.5%

Source: Maricopa County Air Quality Department's Annual Trip Reduction Report

The data used to generate this table is based on the Maricopa County Air Quality Department's Annual Trip Reduction Survey. The most recent survey was administered to over 100,000 people. Student surveys were included in this analysis.

Due to rounding errors associated with the calculation of the percent of travel, the sum of the individual categories may not equal 100%.

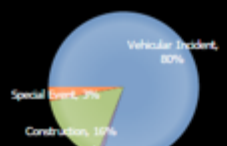
Regional Commute Mode Shares (2014)



Source: Maricopa County Air Quality Department's Annual Trip Reduction Report

Due to rounding errors associated with the calculation of the percent of travel, the sum of the individual categories does not equal 100%.

Non-Recurring Congestion on Freeway Study Sections\*



\*Weekday and Weekend - MAG 2011 Non-Recurring Congestion Study

Annual Total Freeway Congestion (vehicle-hours)

Study Sections	Vehicle Miles Traveled (VMT)	Weekday + Weekend Recurring	Weekday + Weekend Non-Recurring	Total
1-10 AM, 10-11 AM, 11-12 PM	465,134	81,317	19,548	565,999
1-12 PM, 1-2 PM, 2-3 PM, 3-4 PM, 4-5 PM, 5-6 PM	387,833	2,811	18,389	390,933
6-9 AM, 9-10 AM, 10-11 AM, 11-12 PM	212,888	48,114	41,148	302,150
1-2 PM, 2-3 PM, 3-4 PM, 4-5 PM, 5-6 PM	455,575	146,080	19,708	621,363
10-11 PM, 11-12 PM, 12-1 AM	265,434	23,299	100,104	388,837
Total	1,576,868	175,531	79,909	1,832,308
Systemwide	26,416,000	5,504,858	1,079,817	28,000,675

Note: Systemwide VMT based on 2017 ADOT data

Source: 2009 MAG Non-Recurring Congestion Study

Download

About Magnitude

MAG Home

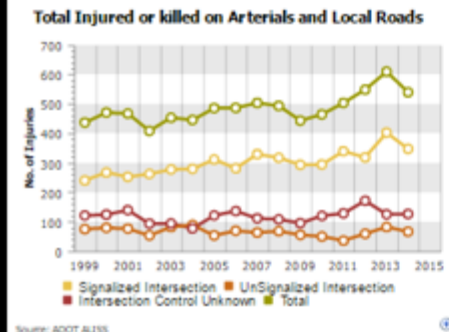
Feedback

PM Peak Travel Time on key corridors 2014

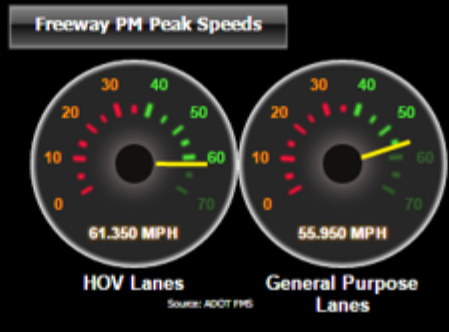
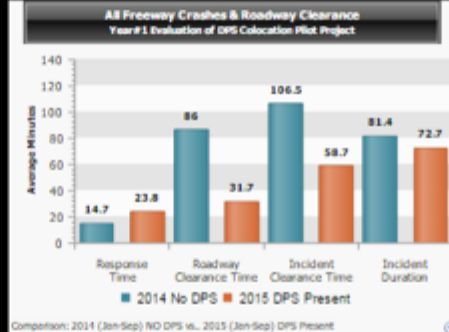
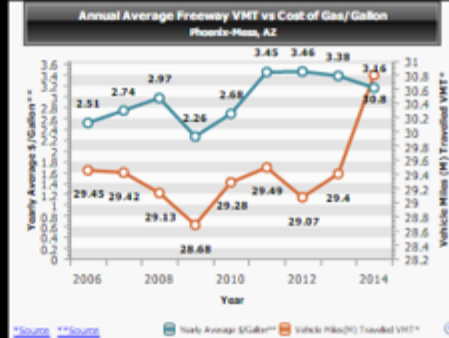


Source: HERE

Safety



Source: ADOT ALIS



Source: ADOT FMS

ADOT FMS

Private Sector Data

2009

2010

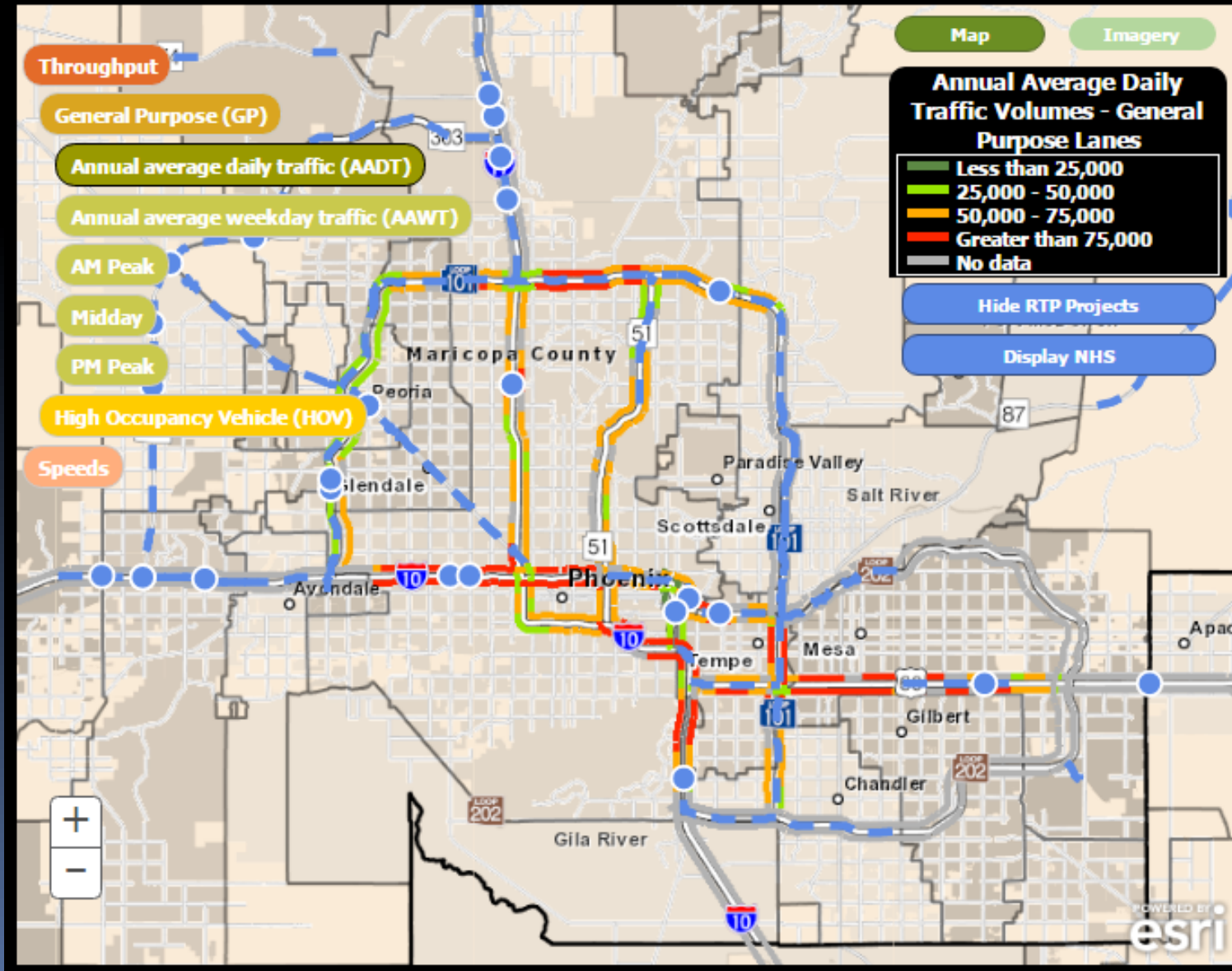
2011

2012

2013

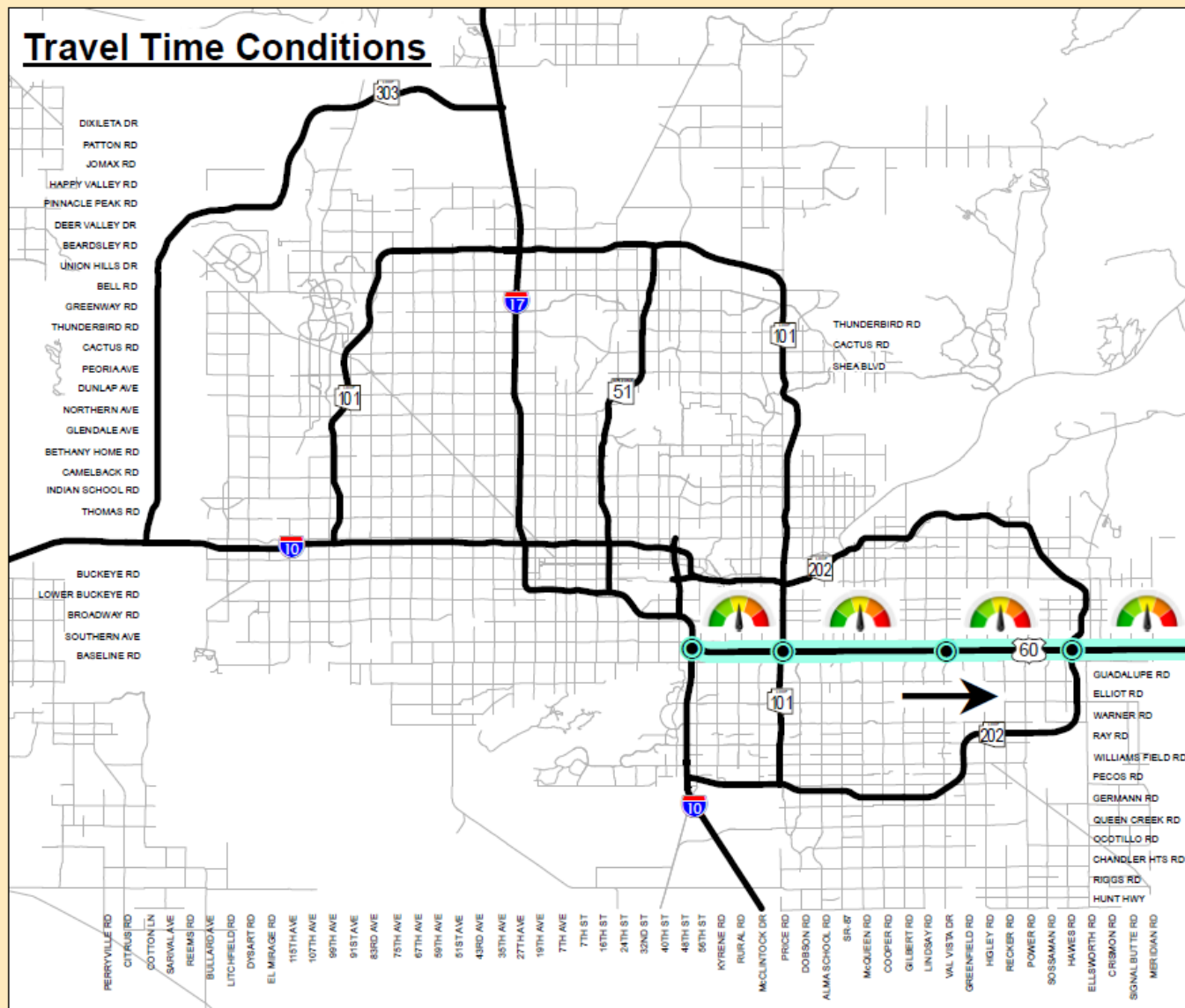
2014

2015





# Travel Time Conditions



While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.

0 5 10 15 20 Miles

draft



**MAG**ni↑ude

Transportation Performance Dashboard



interactive visualization tool for regional multimodal transportation information and analysis

[performance.azmag.gov](http://performance.azmag.gov)

In collaboration with the Arizona Department of Transportation and Valley Metro



**MARICOPA  
ASSOCIATION of  
GOVERNMENTS**

[www.azmag.gov](http://www.azmag.gov)

Regional Transportation Plan (RTP)  
Project Cards



informational viewer tool for all completed and underway RTP Freeway projects and Light Rail transit projects

[projectcards.azmag.gov](http://projectcards.azmag.gov)

In collaboration with the Arizona Department of Transportation and Valley Metro

Link to FHWA Rulemaking:

<https://www.fhwa.dot.gov/tpm/rule.cfm>

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